

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (currently amended) A classifier for processing silicon comprising:
  - (i) a cylinder having a circumferential edge with indents arrayed in increasing size from a first end of the cylinder to a second end of the cylinder, where the indents are sized to capture pieces of a predetermined size or smaller and to reject pieces of a size larger than the predetermined size, where each indent is shaped as half an ellipsoid,
  - (ii) a conveyor running longitudinally adjacent the cylinder,
  - (iii) a drive mechanism rotatably mounted to the cylinder;wherein a contact surface of the classifier~~components of the apparatus~~ contacting the silicon impart no or low surface contamination to the silicon.
2. (original) The classifier of claim 1, where the conveyor is a vibratory conveyor.
3. (currently amended) A classifier comprising:
  - a first rotating disk having a circumferential edge with one or more indents sized to capture silicon pieces of a first size or smaller and to reject silicon pieces of a size larger than the first size, and
  - a second rotating disk having a circumferential edge with one or more indents sized to capture silicon pieces of a second size or smaller and to reject silicon pieces of a size larger than the second size, wherein the first size is smaller than the second size;wherein the components of the classifier contacting the silicon pieces impart no or low surface contamination to the silicon pieces.
4. (original) The classifier of claim 3, where the rotating disks are arrayed such that the first rotating disk has the smallest sized indents and the last rotating disk has the largest sized indents.

5. (original) The classifier of claim 3, further comprising a conveyor aligned with the rotating disks in a manner to convey a mixture of silicon pieces of varying sizes from the first rotating disk to the last rotating disk.
6. (previously presented) The classifier of claim 5, where the conveyor is a vibratory conveyor.
7. (original) The classifier of claim 3, where each indent has a shape selected from cubic, cylindrical, half-cylindrical, ellipsoidal, half-ellipsoidal, or wedge.
8. (currently amended) A system comprising:  
a heater for heating a silicon workpiece to a temperature of 600 to 1400 °F,  
a spray quench apparatus for spraying the silicon workpiece with fluid from a nozzle,  
a separator for extending cracks in the silicon workpiece to form a mixture of silicon pieces of varying sizes, and  
the ~~rotary-indent~~ classifier of claim 1 for sorting the mixture of silicon pieces into at least two size distributions.
9. (original) The system of claim 8, where the heater is selected from a laser, an infra-red, or a microwave heater.
10. (original) The system of claim 8, where the separator is selected from a mechanical, sonic, or vibrational separator.
11. (canceled)
12. (canceled)
13. (currently amended) A system comprising:

a heater for heating a silicon workpiece to a temperature of 600 to 1400 °F,  
a spray quench apparatus for spraying the silicon workpiece with fluid from a nozzle,  
a separator for extending cracks in the silicon workpiece to form a mixture of silicon  
pieces of varying sizes, and  
the ~~rotary-indent~~ classifier of claim 3 for sorting the mixture of silicon pieces into at least  
two size distributions.

14. (previously presented) The system of claim 13, where the heater is selected from a laser,  
an infra-red, or a microwave heater.

15. (previously presented) The system of claim 13, where the separator is selected from a  
mechanical, sonic, or vibrational separator.

16. (canceled)

17. (canceled)